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CLAIMS:

1. A telephone apparatus comprising:
a transceiver;
a display device;
an input device for inputting data and desired
5 instructions;
a memory for storing received data; and
a control device controlling such that. When a
telephone call is in progress through an established connection
to another party and a predetermined kind of distinguishable data
10 is received from the other party through the established
connection, the received distinguishable data is stored into the
memory so as to allow it to be reused.

2. The telephone apparatus according to claim 1,
wherein the controller further controls such that, when the
15 telephone call is in progress through the established connection
to the other party, the predetermined kind of distinguishable
data is transmitted to the other party through the established
connection depending on an instruction inputted through the input
device.

20 3. A telephone apparatus comprising:

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a transceiver;
a display device;
an input device for inputting phone number data and
desired instructions;

5 a memory for storing received data; and

a control device controlling such that, in
communication with another party through an established
connection, when receiving phone number data from the other party
through the established connection, the received phone number
10 data is automatically stored into the memory and is displayed
on the display device.

4. The telephone apparatus according to claim 3,
wherein the received phone number data stored in the memory is
used to make a call depending on an instruction inputted through
15 the input device.

5. The telephone apparatus according to claim 3,
wherein the controller further controls such that, when the
telephone call is in progress through the established connection
to the other party, desired phone number data is transmitted to
20 the other party through the established connection depending on
an instruction inputted through the input device.

6. The telephone apparatus according to claim 5,

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7. The telephone apparatus according to claim 5,
further comprising:

wherein the desired phone number data is retrieved from the phone directory memory depending on an instruction inputted through the input device.

10 8. The telephone apparatus according to claim 7,
wherein the received phone number data stored in the memory is
transferred to the phone directory memory depending on an
instruction inputted through the input device.

9. The telephone apparatus according to claim 5,
15 further comprising:

a speech recognizer for recognizing input voice data
to produce character data.

wherein the desired phone number data is produced by the speech recognizer receiving voice data corresponding to 20 digits of the desired phone number through a microphone of the telephone apparatus.

$$\frac{1}{\Gamma(\alpha)} \int_0^t (t-\tau)^{\alpha-1} \frac{d}{d\tau} \left(\frac{1}{\Gamma(\beta)} \int_0^\tau (\tau-\eta)^{\beta-1} \frac{d}{d\eta} f(\eta) d\eta \right) d\tau = \frac{1}{\Gamma(\alpha+\beta)} \int_0^t (t-\eta)^{\alpha+\beta-1} \frac{d}{d\eta} f(\eta) d\eta$$

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10. A method for transferring a phone number from a first telephone to a second telephone, which are in communication through a connection, comprising the steps of:

at the first telephone,

5 a) producing transmission data including a desired phone number to be transmitted;

b) transmitting the transmission data to the second telephone through the connection;

at the second telephone,

10 c) receiving the desired phone number included in the transmission data from the first telephone through the connection;

d) displaying the desired phone number received; and

15 e) storing the desired phone number received into a memory.

11. The method according to claim 10, further comprising the step of:

f) making a call at the desired phone number stored in the memory depending on a user's instruction.

20 12. The method according to claim 10, wherein in the step (a), the desired phone number data is produced through the input device.

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